

## Alessandra Sciutti

Date of birth: 1<sup>st</sup> September 1982;  
Nationality:  
ORCID:  
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### EDUCATION

- 2007-2010 Ph.D. in **Humanoid Technologies**, University of Genoa, Italy, (April). Sup: Dr. Francesco Nori
- 2004-2006 Master's Degree (110/110 cum laude) in **Bioengineering** (Neuroengineering), University of Genoa, Italy. (November)
- 2004-2006 Master courses at the Educational Excellence Program of the Inst. of **Advanced Studies in Information and Communication Technologies** ISICT, with scholarship, Genoa, (November)
- 2001-2004 Bachelor's Degree (110/110 cum laude) in **Bioengineering** and Biomedical Engineering, University of Genoa, Italy (September)

### MAIN PROFESSIONAL AND HONORARY APPOINTMENTS

- 2019-now Tenure Track Researcher, **Head of the COgNiTive Architecture for Collaborative Technologies (CONTACT) unit** of the **Italian Institute of Technology (IIT)**.
- 2014-2018 Researcher, Robotics, Brain & Cog. Sci. Dept., **Italian Institute of Technology**, Genova, Italy.
- 2014-2015 Visiting Researcher, **Emergent Robotics Lab., Osaka University**, Japan (3 months)
- 2011-2012 Visiting Researcher, **Robotics Lab., Rehabilitation Institute of Chicago**, IL, USA (1 year)
- 2010-2014 Post Doc, Robotics, Brain and Cognitive Sciences Department, **IIT**, Genoa, Italy
- CAREER BREAK** Oct 2015-May 2016 **Maternity leave**

### COMMISSIONS OF TRUST

**Grant Evaluator** for the: **NWO**, the Dutch Research Council (2022), **ERC StG simulation** interviews (PE7 and SH4) for **Queen's University Belfast** (2022) and **APRE** (2021), the **Rosetrees Trust**, UK charitable foundation (2019), Ministero dell'Istruzione, dell'Università e della Ricerca (**MIUR**) (2018), the **German Israeli Foundation (GIF)** for Scientific Research (2018), the **French National research Agency (ANR)** (2017).

**PhD Thesis Evaluator** for **10 PhD candidates** in Italy, Sweden, UK, France and Israel.

**Ad-hoc reviewer** for: *Journals* among which Scientific Reports, iScience, Neuropsychologia, Philosophical Transactions of the Royal Society B, Int. Jour. of Humanoid Robotics, Int. Jour. of Social Robotics, Robotica, IEEE Robotics and Automation Letters, Front. in Human Neuroscience, Quarterly Journal of Exp. Psychology, Plos One, Developmental Science, Exp. Brain Research, Cognitive Systems Research, Front. in Integrative Neuroscience, Front. in Psychology, Interaction Studies, Trans. on Human-Robot Interaction, Trans. on Cognitive and Developmental Systems, Front. in Robotics and AI; *Conferences* among which COR-L, SMC, ICDL, HUMANOIDS, IROS, ICSR, HRI, RO-MAN, ICRA, APA Tech. Mind and Society conference, RSS.

### EDITORIAL ACTIVITY

**Senior Editor** for *Cognitive Systems Research* (2022, formerly Associate Editor since 2017)

Member of the **IEEE RAS Steering committee for the Publication Activities Board (PAB)** for IEEE Transactions on Cognitive and Developmental Systems (2022)

**Associate Editor** for (since): *Interaction Studies* (2021), *International Journal of Social Robotics*

(2019) *Frontiers in Robotics & AI* (2020, one of the **top contributing editors** in 2022), *IEEE Transactions on Cognitive and Developmental Systems* (2018), *International Journal of Humanoid Robotics* (2017), *Robots and Autonomous Systems* (2016) and for several conferences (*ICRA 2019, ICDL-EPIROB 2016-2019, 2022, BIOROB 2018*); **Review Editor** of *Frontiers in Integrative Neuroscience* (2016)

#### **Guest Editor:**

2022 – “*Emerging Topics on Development and Learning*” Special Issue (SI) for IEEE Trans. on Cognitive and Developmental Systems with D. Luo, A. Cangelosi, W. Wan, A. Tanevska.  
2021 – “*Affective Shared Perception*” SI, Front. in Int. Neurosci. with P. Barros, G. Castellano, Y. Nagai.  
2017 – “*A sense of interaction in humans and robots: from visual perception to social cognition*” SI for IEEE Trans. on Cognitive and Developmental Systems, with N. Noceti  
2020 – **Editor of the Book** “*Modelling Human Motion. From Human Perception to Robot Design*”, Springer International Publishing. with F.Rea, N.Noceti

**SUPERVISION ACTIVITIES** Supervision of **21 PhD students** at Istituto Italiano di Tecnologia (IIT) and University of Genoa, Italy; **20 Master students** in Robotics, Bioengineering, Informatics, Digital Humanities and Educational Science, at University of Genoa, 1 Bielefeld University, 1 University of Naples Federico II; Supervisor of **18 Bachelor students** at University of Genoa, Italy, since 2011. Currently supervising **9 Postdoctoral fellows** (Fabio Vannucci, Dario Pasquali, Lorenzo Landolfi, Doreen Jirak, Joshua Zonca, Jasmin Bernotat, Jonathan Zaji Bar-Magen Numhauser, Giulia Belgiovine, Maria Elena Lechuga Redondo).

#### **TEACHING AND INSTITUTIONAL RESPONSIBILITIES**

2021-now **National Scientific Qualification as Associate Professor in Computer Engineering**  
2017-now **National Scientific Qualification as Associate Professor in Bioengineering**  
2022-now **Mentor** within the IIT mentorship program for one first year PhD student  
2021-now Member of the **steering committee of the IIT Diversity, Inclusion and Social Impact office**  
2022-now **Teaching** lectures in the “**Psychology of Action and Perception**” course for Master Students in Robotics at the University of Genoa.  
2021-now **Curriculum advisor** for PhD curriculum “Cognitive Robotics, Interaction and Rehabilitation technologies” at the University of Genoa, Italy.  
2020-now **Faculty Board Member**, Doctoral Course in Bioeng. and Robotics, University of Genoa.  
2015-now **Teaching “Human-Robot Interaction” and “Cognitive Robotics”** Advanced courses for PhD students, ~10 hours (about 20 students per course), 2015-2018, in 2020 and 2022.  
2015-now Member of the **Selection Committee for the Exams for the Doctoral Course** in Bioengineering and Robotics, at the University of Genoa, as Expert.

#### **ORGANISATION OF SCIENTIFIC MEETINGS**

Since 2013 I **organized 22 international events** among which **11 international workshops** in correspondence to major robotic (**IROS, ICDL, SMC**), computer science (**IJCAI, UMAP, IUI**), and human-robot interaction (HRI) conferences (**HRI, HAI, RO-MAN**). In particular, I aimed at establishing a convergence between cognitive science, neuroscience, and robotics, e.g. with the series of two workshops at the International Conference on HRI entitled “*HRI: a bridge between Robotics and Neuroscience*” and “*Cognition: A Bridge between Robotics and Interaction.*” Moreover, I organized **1 panel** on *Cognition in Humans and Robot* at the **EuroScience Open Forum (ESOF) 2016** in Manchester (UK). I also co-organized **4 symposia**: at the **Conference of the Italian Society of Psychophysiology and Cognitive Neuroscience** (Udine, 2022), at the **Italian Association of Cognitive Science (AISC) conference** (Parma, 2022), 1 for the series **British Machine Vision Association Symposia** (London, 2016) and 1 at the **EuroAsianPacific Joint Conference on Cognitive Science** (Turin, 2016) on *Cognitive Development and Architectures for Cognitive Robotics*. I also co-

organized 1 **tutorial** at the **International Conference on Image Analysis and Processing** (2017), 1 **challenge** at **IJCA** (2021) and a series of **4 international workshops** within the EU project **CODEFROR**.

I served as **chair** for several **international conferences** such as *Program Chair* for **ICDL 2021**, *Alt-HRI Chair* for **HRI 2023**, *Poster Chair* for **HAI 2022**, *Publicity Chair* for **ICDL 2022**, **ICSR 2021**, **ROMAN 2020**, **HAI 2017** and *Local Chair* for **ICDL 2014**.

**INTERNATIONAL COOPERATION:** My research at the interface between robotics, perceptual science and social cognition has led me to build up an extensive and multidisciplinary network, with whom I entertain active collaborations, as shown by co-authored international publications, students exchanges, and the organization of joint international scientific events. The list of collaborators include *perceptual scientists* (**Maria Concetta Morrone, David Burr**), *cognitive scientists* (**Cristina Becchio, John Michael**), *psychologists* (**Friederike Eyssel, Monica Gori**), *linguists* (**Katharina Rohlfing**), *neuroscientists* (**Alessandro D’Ausilio, Luciano Fadiga, Thierry Pozzo, Giacomo Rizzolatti**), *neurologists* (**Jürgen Konczak, Giovanni Abbruzzese**), *computer vision experts* (**Francesca Odone, Nicoletta Noceti, Jose Bernardino**), *philosophers* (**Massimo Marassi, Shaun Gallagher**), *roboticists* (**Giorgio Metta, Francesco Nori, Hiroshi Ishiguro**), experts in *Cognitive Robotics* (**Giulio Sandini, David Vernon, Minoru Asada, Yukie Nagai**). My dual expertise in robotics and cognitive sciences has also enabled me to take on leadership roles in several multi-disciplinary collaborations, including the organization of workshops aimed at bringing together Robotics and Cognitive Sciences. It also led to several multidisciplinary European and National projects, including the **ERC StG wHiSPER** (2019-2024) and the **EU FP7 IRSES CODEFROR project** (COgnitive DEvelopment for Friendly RObots and Rehabilitation, 2014-2018).

#### **MEMBERSHIPS OF SCIENTIFIC SOCIETIES AND COMMITTEES**

2022-now Member of the **Steering Committee of the HRI community**, region of Europe

2022-now Member of the **Association of ERC Grantees**

2021-now **ELLIS Scholar** in the Genoa European Lab for Learning and Intelligent Systems Unit.

2021-now **Corresponding Co-Chair** of the **IEEE RAS TC for Cognitive Robotics**

2021-now Member of **Academia-Net** –database of profiles of excellent female researchers

2017-now Member of Association for Computing Machinery (**ACM**) – Number: 7924963

2013-now Member of Institute of Electrical and Electronic Engineers (**IEEE**) – Number: 90572710

#### **CURRENT GRANTS**

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>
wHiSPER - investigating Human Shared Perception with Robots	H2020 ERC STARTING	Total Budget: 1.700.000 euro	01/03/2019 – 31/12/2024	Coordinator
TERAIS - Towards Excellent Robotics and Artificial Intelligence at a Slovak university	Horizon Europe - WIDERA-2021	Total Budget: 1.578.790 Budget IIT 296.250 euro	01/10/2022 - 30/09/2025	PI for IIT partner
RAISE -Robotics and AI for Socio-economic Empowerment	Next Generation EU	228.993€ (budget awarded to the PI)	01/10/2022– 30/09/2025	Member of the consortium
APRIL - Multipurpose robotics for mAniPulation of defoRmable materIaLs in manufacturing processe	Horizon 2020 - RIA	Total budget: 7926391.25 IIT Budget: 508.312 euro	01/04/2020 – 31/03/2024	Team member for IIT partner

VOJEXT - Value Of Joint EXperimentation in digital Technologies for manufacturing and construction	Horizon 2020 - IA	Total budget: 8008166.25  IIT Budget: 420.550 euros	01/07/2020 - 31/12/2023	Team member for IIT partner
ActiveAgeIT - Active and healthy ageing at work: an analysis of the current situation and of barriers and facilitators in the Italian labour force	INAIL	Total budget 328225  IIT budget 193.725 euros	(tentative – the project has been selected for funding) 2023 - 2025	WP4 co-leader

## **PUBLICATION RECORD**

Total publications: 146; Papers in International Peer-reviewed Journals: 59

Citations: Overall=1928, in 2022=413, h-index=23 (Info from Google Scholar, 26 Jan 2023)

Citations: Overall=1238, in 2022=241, h-index=19 (Info from Elsevier Scopus, 26 Jan 2023)

For the full list of publications, please check: <https://www.iit.it/it/people-details/-/people/alessandra-sciutti>

## **PUBLICATIONS LIST**

### **Book**

Mazzola C., Incao S., Rea F., Sciutti A., Marassi M. (2022). Human Experience And Robotic Experience: A Reciprocal Exchange Of Perspectives, *Humane Robotics. A Multidisciplinary Approach Towards the Development of Humane-Centered Technologies*.

Sciutti A., Sandini G. (2021). Modelling the Minimal Skills Necessary for Cognitive Development: the iCub Project and the Quest for Cognition., *Meaningful Relations: The Enactivist Making of Experiential Worlds*.

Noceti N., Sciutti A., Rea F. (2020). Modeling Human Motion: A Task at the Crossroads of Neuroscience, Computer Vision and Robotics, *Modelling Human Motion: From Human Perception to Robot Design*, 1-14.

Noceti N., Sciutti A., Rea F. (2020). Modelling Human Motion. From Human Perception to Robot Design, *Modelling Human Motion. From Human Perception to Robot Design*.

Sandini G., Sciutti A., Rea F. (2018). Movement-Based Communication for Humanoid-Human Interaction, *Humanoid Robotics: A Reference*, 2169-2197.

D'Ausilio A., Lohan K., Badino L., Sciutti A. (2016). Studying human-human interaction to build the future of human-robot interaction, *Human Computer Confluence: Transforming Human Experience Through Symbiotic Technologies*, 213-225.

Baud-Bovy G., Morasso P., Nori F., Sandini G., Sciutti A. (2014). Human machine interaction and communication in cooperative actions, *Bioinspired Approaches for Human-Centric Technologies*, 241-268.

### **Journal**

Nair V., Hemeren P., Vignolo A., Noceti N., Nicora E., Sciutti A., Rea F., Billing E., Bhatt M., Odone F., Sandini G. (2023). Kinematic primitives in action similarity

judgments: A human-centered computational model, *IEEE Transactions on Cognitive and Developmental Systems*.

Zonca J., Folso A., Sciutti A. (2023). Social Influence Under Uncertainty in Interaction with Peers, Robots and Computers, *International Journal of Social Robotics*.

Vignolo A., Powell H., Rea F., Sciutti A., McEllin L., Michael J. (2022). A Humanoid Robot's Effortful Adaptation Boosts Partners' Commitment to an Interactive Teaching Task, *ACM Transactions on Human-Robot Interaction*, 11.

Barros P., Sciutti A. (2022). Across the Universe: Biasing Facial Representations Toward Non-Universal Emotions With the Face-STN, *IEEE Access*, 10, 103932-103947.

Niewiadomski R., Beyan C., Sciutti A. (2022). Affect Recognition in Hand-Object Interaction Using Object-Sensed Tactile and Kinematic Data, *IEEE Transactions on Haptics*.

Barros P., Sciutti A. (2022). All by Myself: Learning individualized competitive behavior with a contrastive reinforcement learning optimization, *Neural Networks*, 150, 364-376.

Leo F., Gori M., Sciutti A. (2022). Early blindness modulates haptic object recognition, *Frontiers in Human Neuroscience*, 16.

Sciutti A., Barros P., Castellano G., Nagai Y. (2022). Editorial: Affective shared perception, *Frontiers in Integrative Neuroscience*, 16.

Sacino A., Cocchella F., De Vita G., Bracco F., Rea F., Sciutti A., Andrighetto L. (2022). Human- or object-like? Cognitive anthropomorphism of humanoid robots, *PLoS ONE*, 17.

Barros P., Yalcin O.N., Tanevska A., Sciutti A. (2022). Incorporating rivalry in reinforcement learning for a competitive game, *Neural Computing and Applications*.

Lombardi G., Gerbella M., Marchi M., Sciutti A., Rizzolatti G., Di Cesare G. (2022). Investigating form and content of emotional and non-emotional laughing, *Cerebral Cortex*.

Leo F., Sandini G., Sciutti A. (2022). Mental Rotation Skill Shapes Haptic Exploration Strategies, *IEEE Transactions on Haptics*, 15, 339-350.

Matarese M., Rea F., Sciutti A. (2022). Perception is Only Real When Shared: A Mathematical Model for Collaborative Shared Perception in Human-Robot Interaction, *Frontiers Robotics AI*, 9.

Mazzola C., Rea F., Sciutti A. (2022). Shared perception is different from individual perception: a new look on context dependency, *IEEE Transactions on Cognitive and Developmental Systems*.

Zonca J., Folsø A., Sciutti A. (2022). Social influence under uncertainty in interaction with peers, robots and computers, *International Journal of Social Robotics*.

Incao S., Mazzola C., Sciutti A. (2022). The impact of early aging on visual perception of space and time, *Frontiers in Human Neuroscience*, 16.

Tsfasman M., Philippsen A., Mazzola C., Thill S., Sciutti A., Nagai Y. (2022). The world seems different in a social context: A neural network analysis of human experimental data, *PLoS ONE*, 17.

Sciutti A., Sandini G. (2022). To Move or Not to Move: Development of Fine-Tuning of Object Motion in Haptic Exploration, *IEEE Transactions on Cognitive and Developmental Systems*, 14, 366-374.

Shimoda S., Jamone L., Ognibene D., Nagai T., Sciutti A., Costa-Garcia A., Oseki Y., Taniguchi T. (2022). What is the role of the next generation of cognitive robotics?, *Advanced Robotics*, 36, 3-16.

Di Cesare G., Pelosi A., Aresta S.M., Lombardi G., Sciutti A. (2021). Affective Contagion: How Attitudes Expressed by Others Influence Our Perception of Actions, *Frontiers in Human Neuroscience*, 15.

Di Cesare G., Cuccio V., Marchi M., Sciutti A., Rizzolatti G. (2021). Communicative and affective components in processing auditory vitality forms: An fmri study, *Cerebral Cortex*, 2021.

Tanevska A., Rea F., Sandini G., Canamero L., Sciutti A. (2021). Corrigendum: A Socially Adaptable Framework for Human-Robot Interaction (Front. Robot. AI., (2020), 7, (121), 10.3389/frobt.2020.00121), *Frontiers Robotics AI*, 8.

Pasquali D., Gonzalez-Billandon J., Aroyo A.M., Sandini G., Sciutti A., Rea F. (2021). Detecting Lies is a Child (Robot)'s Play: Gaze-Based Lie Detection in HRI, *International Journal of Social Robotics*.

Zonca J., Folso A., Sciutti A. (2021). Dynamic modulation of social influence by indirect reciprocity, *Scientific Reports*, 11.

Manzi F., Sorgente A., Massaro D., Villani D., Di Lernia D., Malighetti C., Gaggioli A., Rossignoli D., Sandini G., Sciutti A., Rea F., Maggioni M.A., Marchetti A., Riva G. (2021). Emerging Adults' Expectations about the Next Generation of Robots: Exploring Robotic Needs through a Latent Profile Analysis, *Cyberpsychology, Behavior, and Social Networking*, 24, 315-323.

Aroyo A.M., Pasquali D., Kothig A., Rea F., Sandini G., Sciutti A. (2021). Expectations Vs. Reality: Unreliability and Transparency in a Treasure Hunt Game with Icube, *IEEE Robotics and Automation Letters*, 6, 5681-5688.

Zonca J., Folso A., Sciutti A. (2021). I'm not a little kid anymore! Reciprocal social influence in child–adult interaction, *Royal Society Open Science*, 8.

Gaggioli A., Chirico A., Di Lernia D., Maggioni M.A., Malighetti C., Manzi F., Marchetti A., Massaro D., Rea F., Rossignoli D., Sandini G., Villani D., Wiederhold B.K., Riva G.,

Sciutti A. (2021). Machines like Us and People like You: Toward Human-Robot Shared Experience, *Cyberpsychology, Behavior, and Social Networking*, 24, 357-361.

Sciutti A., Battaglia F., Fossati M.R., Calderai V., Catalano M.G., Antonelli G., Di Nunzio G.M., Dubbini N., Giarre L., Menegatti E., Negrello F., Pascucci F., Pivetti M., Zanchettin A.M., Baroncelli A., Majorana S., Marchisio C., Siciliano B., Rocco P., Metta G., Melchiorri C., Laschi C., Guglielmelli E., De Luca A., Dario P., Bicchi A. (2021). Making an Opportunity out of a Crisis: The Inclusive Approach of the Italian Robotics Community, *IEEE Robotics and Automation Magazine*, 28, 79-91.

Lombardi G., Zenzeri J., Belgiovine G., Vannucci F., Rea F., Sciutti A., Di Cesare G. (2021). The influence of vitality forms on action perception and motor response, *Scientific Reports*, 11.

Di Cesare G., Marchi M., Lombardi G., Gerbella M., Sciutti A., Rizzolatti G. (2021). The middle cingulate cortex and dorso-central insula: A mirror circuit encoding observation and execution of vitality forms, *Proceedings of the National Academy of Sciences of the United States of America*, 118.

Zonca J., Folso A., Sciutti A. (2021). The role of reciprocity in human-robot social influence, *iScience*, 24.

Matarese M., Sciutti A., Rea F., Rossi S. (2021). Toward Robots' Behavioral Transparency of Temporal Difference Reinforcement Learning with a Human Teacher, *IEEE Transactions on Human-Machine Systems*, 51, 578-589.

Matarese M., Rea F., Sciutti A. (2021). Towards Robots' Behavioural Transparency of Temporal Difference Reinforcement Learning with a Human Teacher, *IEEE Transactions on Human-Machine Systems*.

Barros P., Bloem A.C., Hootsmans I.M., Opheij L.M., Toebosch R.H.A., Barakova E., Sciutti A. (2021). You Were Always on My Mind: Introducing Chef's Hat and COPPER for Personalized Reinforcement Learning, *Frontiers Robotics AI*, 8.

Tanevska A., Rea F., Sandini G., Canamero L., Sciutti A. (2020). A Socially Adaptable Framework for Human-Robot Interaction, *Frontiers Robotics AI*, 7.

Di Cesare G., Vannucci F., Rea F., Sciutti A., Sandini G. (2020). How attitudes generated by humanoid robots shape human brain activity, *Scientific Reports*, 10.

Matarese M., Rea F., Sciutti A. (2020). Shared perception in mutual visual orienting: A comparative study, *Frontiers in Robotics and AI - Human-robot Interaction*.

Barros P., Churamani N., Sciutti A. (2020). The FaceChannel: A Fast and Furious Deep Neural Network for Facial Expression Recognition, *SN Computer Science*, 1.

Nicora E., Goyal G., Noceti N., Vignolo A., Sciutti A., Odone F. (2020). The MoCA dataset, kinematic and multi-view visual streams of fine-grained cooking actions, *Scientific data*, 7.

Gonzalez-Billandon J., Aroyo A.M., Tonelli A., Pasquali D., Sciutti A., Gori M., Sandini G., Rea F. (2019). Can a Robot Catch You Lying? A Machine Learning System to Detect Lies During Interactions, *Frontiers Robotics AI*, 6.

Vannucci F., Sciutti A., Lehman H., Sandini G., Nagai Y., Rea F. (2019). Cultural differences in speed adaptation in human-robot interaction tasks, *Paladyn*, 10, 256-266.

Sciutti A., Patane L., Sandini G. (2019). Development of visual perception of others' actions: Children's judgment of lifted weight, *PLoS ONE*, 14.

Rea F., Vignolo A., Sciutti A., Noceti N. (2019). Human Motion Understanding for Selecting Action Timing in Collaborative Human-Robot Interaction, *Frontiers Robotics AI*, 6.

Szekely M., Powell H., Vannucci F., Rea F., Sciutti A., Michael J. (2019). The perception of a robot partner's effort elicits a sense of commitment to human-robot interaction, *Interaction Studies*, 20, 234-255.

Sciutti A., Damonte F., Alloisio M., Sandini G. (2019). Visuo-haptic exploration for multimodal memory, *Frontiers in Integrative Neuroscience*, 13.

Farshchian A., Sciutti A., Pressman A., Nisky I., Mussa-Ivaldi F.A. (2018). Energy exchanges at contact events guide sensorimotor integration, *eLife*, 7.

Sciutti A., Noceti N. (2018). Guest Editorial A Sense of Interaction in Humans and Robots: From Visual Perception to Social Cognition, *IEEE Transactions on Cognitive and Developmental Systems*, 10, 839-842.

Sandini G., Sciutti A. (2018). Humane Robots—from Robots with a Humanoid Body to Robots with an Anthropomorphic Mind, *ACM Transactions on Human-Robot Interaction*, 7.

Sciutti A., Mara M., Tagliasco V., Sandini G. (2018). Humanizing human-robot interaction: On the importance of mutual understanding, *IEEE Technology and Society Magazine*, 37, 22-29.

Sandini G., Mohan V., Sciutti A., Morasso P. (2018). Social cognition for human-robot symbiosis—challenges and building blocks, *Frontiers in Neurobotics*, 12, 1-19.

Aroyo A.M., Rea F., Sandini G., Sciutti A. (2018). Trust and Social Engineering in Human Robot Interaction: Will a Robot Make You Disclose Sensitive Information, Conform to Its Recommendations or Gamble?, *IEEE Robotics and Automation Letters*, 3, 3701-3708.

Vignolo A., Noceti N., Rea F., Sciutti A., Odone F., Sandini G. (2017). Detecting biological motion for human-robot interaction: A link between perception and action, *Frontiers Robotics AI*, 4.

Noceti N., Odone F., Sciutti A., Sandini G. (2017). Exploring biological motion

regularities of human actions: A new perspective on video analysis, *ACM Transactions on Applied Perception*, 14.

Sciutti A., Sandini G. (2017). Interacting with robots to investigate the bases of social interaction, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 25, 2295-2304.

Sciutti A., Noceti N. (2017). Special Issue on: A sense of interaction in humans and robots: From visual perception to social cognition, *IEEE Transactions on Cognitive and Developmental Systems*, 9.

Lyon C., Nehaniv C.L., Saunders J., Belpaeme T., Bisio A., Fischer K., Forster F., Lehmann H., Metta G., Mohan V., Morse A., Nolfi S., Nori F., Rohlfsing K., Sciutti A., Tani J., Tuci E., Wrede B., Zeschel A., Cangelosi A. (2016). Embodied Language Learning and Cognitive Bootstrapping: Methods and Design Principles, *International Journal of Advanced Robotic Systems*, 13.

Sciutti A., Lohan K.S., Gredeback G., Koch B., Rohlfsing K.J. (2016). Language meddles with infants' processing of observed actions, *Frontiers Robotics AI*, 3.

Sciutti A., Ansuini C., Becchio C., Sandini G. (2015). Investigating the ability to read others' intentions using humanoid robots, *Frontiers in Psychology*, 6.

Toma S., Sciutti A., Papaxanthis C., Pozzo T. (2015). Visuomotor adaptation to a visual rotation is gravity dependent, *Journal of Neurophysiology*, 113, 1885-1895.

Lohan K.S., Griffiths S.S., Sciutti A., Partmann T.C., Rohlfsing K.J. (2014). Co-development of manner and path concepts in language, action, and eye-gaze behavior, *Topics in Cognitive Science*, 6, 492-512.

Sciutti A., Burr D., Saracco A., Sandini G., Gori M. (2014). Development of context dependency in human space perception, *Experimental Brain Research*, 232, 3965-3976.

Bisio A., Sciutti A., Nori F., Metta G., Fadiga L., Sandini G., Pozzo T. (2014). Motor contagion during human-human and human-robot interaction, *PLoS ONE*, 9.

Broz F., Nehaniv C.L., Belpaeme T., Bisio A., Dautenhahn K., Fadiga L., Ferrauto T., Fischer K., Forster F., Gigliotta O., Griffiths S., Lehmann H., Lohan K.S., Lyon C., Marocco D., Massera G., Metta G., Mohan V., Morse A., Nolfi S., Nori F., Peniak M., Pitsch K., Rohlfsing K.J., Sagerer G., Sato Y., Saunders J., Schillingmann L., Sciutti A., Tikhanoff V., Wrede B., Zeschel A., Cangelosi A. (2014). The ITALK project: A developmental robotics approach to the study of individual, social, and linguistic learning, *Topics in Cognitive Science*, 6, 534-544.

Sciutti A., Patane L., Nori F., Sandini G. (2014). Understanding object weight from human and humanoid lifting actions, *IEEE Transactions on Autonomous Mental Development*, 6, 80-92.

Morrone C., Jacono M., Sciutti A., Gori M., Burr D.C., Sandini G. (2013). Long

integration time for accelerating and decelerating visual, tactile and visuo-tactile Stimuli, *Multisensory research*, 26, 53-68.

Sciutti A., Bisio A., Nori F., Metta G., Fadiga L., Sandini G. (2013). Robots can be perceived as goal-oriented agents, *Interaction Studies*, 14, 329-350.

Sciutti A., Bisio A., Nori F., Metta G., Fadiga L., Pozzo T., Sandini G. (2012). Measuring Human-Robot Interaction Through Motor Resonance, *International Journal of Social Robotics*, 4, 223-234.

Gori M., Squeri V., Sciutti A., Masia L., Sandini G., Konczak J. (2012). Motor commands in children interfere with their haptic perception of objects, *Experimental Brain Research*, 223, 149-157.

Konczak J., Sciutti A., Avanzino L., Squeri V., Gori M., Masia L., Abbruzzese G., Sandini G. (2012). Parkinson's disease accelerates age-related decline in haptic perception by altering somatosensory integration, *Brain*, 135, 3371-3379.

Squeri V., Sciutti A., Gori M., Masia L., Sandini G., Konczak J. (2012). Two hands, one perception: How bimanual haptic information is combined by the brain, *Journal of Neurophysiology*, 107, 544-550.

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Genova, 21/02/2023